

# SAN JUAN RIVER BASIN

09379030 BLACK MOUNTAIN WASH NEAR CHINLE, AZ

LOCATION.--Lat 36°20'00", long 109°37'25", Apache County, Hydrologic Unit 14080204, at State Highway 63, 1 mi south of Many Farms, and 13 mi north of Chinle.

DRAINAGE AREA.--80.7 mi<sup>2</sup>.

## Annual peak discharges

Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes	Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes
1963	08-06-63	737		1971	08-00-71	2,180	
1964	08-13-64	1,500		1972	08-00-72	900	
1965	08-02-65	238		1973	10-19-72	1,040	
1966	07-31-66	610		1974	07-00-74	140	
1967	08-00-67	360		1975	08-20-75	110	
1968	08-01-68	1,560		1976	00-00-76	1,900	
1969	08-03-69	422		1977	08-17-77	3,100	
1970	08-20-70	1,020					

Magnitude and probability of instantaneous peak flow based on period of record 1963-77

Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
844	1,650	2,320	3,280	4,090	4,970
Weighted skew	(logs) =	-0.18			
Mean	(logs) =	2.92			
Standard dev.	(logs) =	0.36			

† Reliability of values in column is uncertain, and potential errors are large.

## Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
46.2	14.4	5,920	2.1	3.0	10.9	1.3	2.7

